

Silicone-based impression material

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Abstract

A monophase silicone impression composition which crosslinks by an addition reaction, includes the following components: (a) organopolysiloxanes with at least two unsaturated groups in the molecule, (b) organohydrogenpolysiloxanes with at least 2 SiH groups in the molecule, (c) optionally, organopolysiloxane without reactive groups, (d) a platinum catalyst, (e) a hydrophilizing agent, (f) diatomaceous earth, (g) a filler, and (h) optionally further customary additives, auxiliaries and dyestuffs, the amount of component (f) is 8 to 25 wt. %, based on the total weight of the cured composition, and the composition has a Shore hardness A to be determined in accordance with DIN 53505, of less than 45-measured after 30 minutes-, and a viscosity, determined in accordance with ISO 4823, of 31 to 39 mm. The impression composition is suitable for the production of provisional bridges and crowns. It replaces the alginate compositions used hitherto for this purpose and overcomes the disadvantages associated with these compositions.

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